

THE CLAIMS

We claim:

- 5 1. A golf ball comprising:
 a core comprising:
 a solid center made from a first rubber based material;
 a solid outer layer made from a second rubber based material having
different physical properties from said first rubber based material;
 a cover comprising:
10 an inner cover layer made from an ionomer material having a first
shore D hardness and having an outer diameter of at least 1.58 inches;
 an outer cover layer made from a thermoset material having a second
shore D hardness less than the first.
- 15 2. The ball of claim 1 wherein the outer cover layer has a hardness from about
30 shore D to about 60 shore D.
3. The ball of claim 2 wherein the outer cover layer has a hardness from about
20 40 shore D to about 60 shore D.
4. The ball of claim 3 wherein the outer cover layer has a hardness from about
50 shore D to about 60 shore D.
5. The ball of claim 1 wherein the inner cover layer has a flexural modulus of
25 about 65,000 psi or more.
6. The ball of claim 5 wherein the inner cover layer has a hardness from about
65 shore D to about 74 shore D.
- 30 7. The ball of claim 6 wherein the inner cover layer has a hardness from about
68 shore D to about 72 shore D.

8. The ball of claim 1 wherein the outer diameter of the inner cover layer is from about 1.6 inches to about 1.63 inches.

5 9. The ball of claim 8 wherein the outer diameter of the inner cover layer is from about 1.62 inches to about 1.63 inches.

10 10. The ball of claim 1 wherein the center has an outer diameter from about 0.75 inches to about 1.3 inches.

11. The ball of claim 10 wherein the center has an outer diameter from about 1 inch to about 1.15 inches.

12. The ball of claim 1 wherein the outer diameter of the core outer layer is from about 1.55 inches to about 1.58 inches.

15 13. The ball of claim 1 wherein the core outer layer has a first crosslinking agent in an amount from about 20 to about 40 parts per hundred of rubber.

20 14. The ball of claim 13 wherein the amount of first crosslinking agent in the core outer layer is from about 30 to about 38 parts per hundred of rubber.

15. The ball of claim 13 wherein the core outer layer has from about 10 to about 17 parts of balata per hundred parts of rubber.

25 16. The ball of claim 1 wherein the center has a second crosslinking agent in an amount from about 15 to about 25 parts per hundred of rubber.

17. The ball of claim 16 wherein the amount of second crosslinking agent in the center is from about 19 to about 25 parts per hundred of rubber.

30 *Sub A2*
18. A golf ball comprising:
a core comprising:

a solid outer layer made from a second rubber based material having properties from said first rubber based material;

an outer cover layer made from a thermoset material having a second shore D hardness less than the first.

20. The ball of claim 19 wherein the inner cover layer material has a hardness from about 68 shore D to about 72 shore D.

22. The ball of claim 21 wherein the hardness of the outer cover layer is from
20 about 50 shore D to about 60 shore D.

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